

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Elo	Examiner:	UNKNOWN
Serial No.:	TO BE ASSIGNED	Group Art Unit:	TO BE ASSIGNED
Filed:	August 13, 2001	Docket No.:	796.396USW1
Title:	MULTIPLEXING AND DEMULTIPLEXING OF NARROWBAND AND BROADBAND SERVICES IN A TRANSMISSION CONNECTION		

CERTIFICATE UNDER 37 C.F.R. 1.10:

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The undersigned hereby certifies that this Transmittal Letter and the paper or fee, as described herein, are being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

By: Lee Thao  
~~Karl Arnold~~

PRELIMINARY AMENDMENT

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please enter the following preliminary amendment into the above-referenced application.

ABSTRACT

Please insert the attached abstract into the application as the last page thereof.

CLAIMS

Please delete claims 1-8 as follows. Please enter new claims 9-16 as follows.

A clean copy of the amended and new claims is included below.

9. (NEW) A method for implementing narrowband and broadband services on a transmission link of a telecommunications network, having a frequency-dependent characteristic impedance, the method comprising the steps of

- transferring signals belonging to a narrowband service in a first frequency range below a given threshold frequency and signals belonging to a broadband service in a second frequency range above said threshold frequency in the transmission link,

- connecting a splitter element to the transmission link, the splitter element comprising a passive low-pass filter block connected between the transmission link and a first interface and a high-pass filter unit connected between the transmission link and a second interface, signals relating to narrowband service being separated to the first interface by means of the low-pass filter block and signals relating to broadband service being separated to the second interface by the high-pass filter unit, and discrete impedance converting means for adapting the first interface to the characteristic impedance of the transmission link, whereby said impedance converting means conduct the adapting independently without external control,

wherein

placing said impedance converting means entirely between the interface of the low-pass filter block on the transmission link side and said first interface.

10. (NEW) A method as claimed in claim 9, wherein constructing a discrete converting block from the converting means and fitting said block between the first interface and the low-pass filter block.

11. (NEW) A method as claimed in claim 10, wherein implementing the low-pass filter block as an LC network having only inductances and capacitances, said network

comprising at least one longitudinal inductance relative to the subscriber line and at least one transverse capacitance relative to the subscriber line.

12. (NEW) A method as claimed in claim 10, wherein the low-pass filter block is implemented as an LC network having inductances and capacitances, and that part of the impedance converting means is implemented by adding at least one resistor element (RL1', RL1'', RL2', RL2'') to said network.

13. (NEW) A splitter element in a telecommunications system for separating signals transferred in different frequency ranges, said splitter element comprising

- a line port connected to a transmission link having a frequency-dependent characteristic impedance,
- a low-pass filter block connected between the line port and a first interface, said first interface being intended for signals transferred in a lower frequency range,
- a high-pass filter unit connected between the line port and a second interface, said second interface being intended for signals transferred in a higher frequency range, and
- discrete impedance converting means for adapting the first interface to the characteristic impedance of the transmission link, whereby said impedance converting means conduct the adapting independently without external control,

wherein

said impedance converting means are fitted entirely between the interface of the low-pass filter block on the transmission link side and said first interface.

14. (NEW) A splitter element as claimed in claim 13, wherein the impedance converting means comprise a discrete conversion block fitted between the first interface and the low-pass filter block.

15. (NEW) A splitter element as claimed in claim 14, wherein the low-pass filter block comprises a network having only inductances and capacitances, comprising at least one longitudinal inductance relative to the subscriber line and at least one transverse capacitance relative to the subscriber line.

16. (NEW) A splitter element as claimed in claim 14, wherein the low-pass filter block comprises a network having only inductances and capacitances, comprising at least one longitudinal inductance relative to the subscriber line and at least one transverse capacitance relative to the subscriber line, and that the impedance converting means further comprise at least one resistor element (RL1', RL1'', RL2', RL2'') fitted to the network.

## REMARKS

The above preliminary amendment is made to insert an abstract page into the application and to enter new claims 9-16.

Applicant respectfully requests that this preliminary amendment be entered into the record prior to calculation of the filing fee and prior to examination and consideration of the above-identified application.

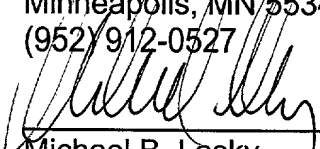
If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's attorney of record, Michael B. Lasky at 952-912-0527.

Respectfully submitted,

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Date: August 13, 2001

By:

  
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